Suggested Format for Residue Chemistry Study Reports

Confined Accumulation in Rotational Crops OPPTS 860.1850

The purpose of this document is to suggest the format for final reports (right column) and to provide instructions for creation of Adobe PDF electronic submission documents (left column). The format is modeled after the NAFTA Data Evaluation Record template that will be used by OPP's and PMRA's scientists when this type of study is reviewed. The format is in outline form. The study report will include text and standard tables (detailed below).

Regarding PDF, both 'bookmarks' and 'links' are referenced. Bookmarks and links are similar in function in that both provide the reader with a way to move efficiently through a document as well as across documents. Bookmarks are a type of link that appear in the navigation pane on the left side of the PDF Reader user screen. Links appear within the body of a document as blue text. They permit the reader to jump to other locations with related information in the same document or other electronic documents.

Residue Chemistry Study Reports – CONFINED ACCUMULATION IN ROTATIONAL CROPS				
Instructions to create PDF Document Format				
Create Bookmarks for each item in Document Format column.	 Study Title Page. Statement of Data Confidentiality No confidentiality claims can be made for electronically submitted studies at this time. GLP Statement. QA Statement. Table of Contents. 			
Create links in summary to related text and tables in body of study report or appendices.	Executive Summary. Summary of Background Information & Experimental Design. Summary of Results			
Create links to related tables.	 Background Information and Experimental Design. Background Information – See Tables 1 and 2. Experimental Design – See Tables 3 - 6. Analytical Methodology. Results and Discussion – See Tables 7 - 11 			

Revision 1

Table Formats

Tables should be imported into the PDF document from their native formats. See OPP's detailed technical specifications for creating PDF for details.

Table 1 – Test Compound Nomenclature.

Compound	Chemical Structure
Common name	
Company experimental name	
IUPAC name	
CAS name	
CAS#	
End-use product / EP	

Table 2 – Physicochemical Properties.

Parameter	Value	Reference
Melting point/range		
рН		
Density		
Water solubility (_ °C)		
Solvent solubility (mg/L at°C)		
Vapor pressure at°C		
Dissociation constant (pKa)		
Octanol/water partition coefficient Log (Kow)		
UV/visible absorption spectrum		

Table 3 – Test Site and Crop Information.

Testing	,	Soil Char	acteristic	Environmental Conditions		
Environment*	Type	% OM	pН	CEC	Temperature	Rainfall

^{*} outdoor test plots, greenhouse, plant growth chambers, etc.

Table 4 – Crop Information.

Crop/crop group	Variety	Plant-back intervals (days)	Growth stage at harvest	Harvested RAC	Harvesting procedure

Table 5 – Test Material Characteristics.

Chemical structure	[Insert structure]	[Insert structure]
Radiolabel position		
Lot No.		
Purity		
Specific activity (Bq)		
Code		

Table 6 – Use Pattern Information.

Chemical name	
Application method	
Application rate	
Number of applications	
Timing of applications	
РНІ	

Table 7 – Summary of Storage Conditions.

Matrix (RAC or Extract)	Plant-back interval (days)	Storage temp. (°C)	Actual storage duration (days or months)	Limit of demonstrated storage stability (days or months)

Table 8 – Total Radioactive Residues (TRRs) in [matrices].

	Plant-back	Aa-l	label	Bb-label	
Matrix	interval (days)	% TRR	ppm	% TRR	ppm
Total recovery					

Table 9 – Distribution of the Parent and the Metabolites in Rotational Crop Matrices when Dosed with ¹⁴C-labeled [chemical] [Note: Add rows to the table as needed to accommodate the fractionation/characterization scheme. Create additional tables as needed for each plant-back interval and to accommodate additional radiolabel positions.]

	Ma	trix 1	Mat	rix 2	Mat	rix 3
	(TRR =	= xx ppm)	(TRR =	xx ppm)	(TRR =	xx ppm)
Metabolite Fraction	% TRR	ppm	% TRR	ppm	% TRR	ppm
Surface wash						
[Add a row for each identified compound]						
[Unidentified compound]						
Organosoluble						
[Add row for each identified compound]						
[Unidentified compound]						
Aqueous soluble						
[Add row for each identified compound]						
[Unidentified compound]						
Total extractable (Aqueous + organic)						
Total identified						
Total unidentified						
Total bound residues (PES)						
% Accountability Total (ppm)/TRR (ppm) × 100						

Table 10 – Summary of Characterization and Identification of Radioactive Residues in Rotational Crop Matrices Following Application of Radiolabeled [chemical] at [rate].

[Note: Create additional tables for each plant-back interval and as needed to accommodate additional radiolabel positions.]

	Matrix 1		Matrix 2		Matrix 3	
Compound	% TRR	ppm	% TRR	ppm	% TRR	ppm
[Parent]						
[Metabolite 1]						
[Metabolite 2]						
[Metabolite 3]						
[Metabolite 4]						
Total identified						
Total characterized						
Total extractable						
Total bound						

Table 11 – Identification of Compounds from the Confined Rotational Crop Study.

Common name/code	Chemical name	Chemical structure